

(C2-7.2) Name:

## Homework Questions 2 – The General Term for a Geometric Sequence

1. Find a formula for the  $n$ th term of these sequences

a) 27, 9, 3, 1

b) 5, 15, 45, 135

c) 2, 2.5, 3.125, 3.90625

d) 5, -10, 20, -40

2. Find the first 3 terms of these geometric sequences given

a)  $a = 4$   $r = 2$

b)  $a = 5$   $r = 8$

c)  $a = 7$   $r = 1.5$

3. Find the 10<sup>th</sup> term of the following sequences

a) 2, 8, 32, 128

b) 96, 48, 24, 12

c) 3, 7.5, 18.75, 46.875